

11-2300-459-14+P1

TM 11-2300-459-14&P-1

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS**

**INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-1813/VRC-49
(NSN 5820-01-022-3330)**

AND

**DIFFERENCE KIT (5820-01-022-6290) FOR RADIO SET AN/VRC-49
IN TRUCK, UTILITY, 1¼ TON M882 OR M892**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
WASHINGTON, DC, 5 February 1979

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Current as of 29 September 1978

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the back of the manual. Simply tear out the self addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Forms 2028-2 in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward it to the Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

In either case a reply will be furnished direct to you.

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual provides instructions for installing Installation Kit, Electronic Equipment MK-1813/VRC-49 (NSN 5820-01-022-3330) or Difference Kit (NSN 5820-01-022-6290).

a. Installation Kit MK-1813/VRC-49 contains items required to install Radio Set AN/VRC-49 in Truck, 1 1/4 ton, M882 or M892.

b. Difference Kit (NSN 5820-01-022-6290) contains items required to transfer an existing vehicular installation of Radio Set AN/VRC-49 to Truck, 1 1/4 ton, M882 or M892.

1-2. Indexes of Publications

a. *DA Pam 310-4*. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. *DA Pam 310-7*. Refer to DA Pam 310-7 to determine whether there are Modification Work Orders (MWO's) pertaining to the Equipment.

1-3. Forms and Records

a. *Reports of Maintenance and Unsatisfactory Equipment*. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. *Report of Packaging and Handling Deficiencies*. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-

58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DLAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP) (SF 361)*. Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33A/AFR 75-18/MCO P4610.19C, and DLAR 4500.15.

1-4. Administrative Storage

When placing or removing MK-1813/VRC-49 Installation Kit into or from administrative storage, perform the steps in tables 3-1 and 3-2.

1-5. Destruction of Army Electronics Material

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-6. Reporting Equipment Improvement Recommendations (EIR's)

EIR's will be prepared using SF 368 (Quality Deficiency Report). Instructions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-7. Disposition of Parts

Dispose of unused parts in accordance with DOD 4160.21-M-1 and AR 755-2.

Section II. DESCRIPTION

1-8. Purpose and Use

The MK-1813/VRC-49 is a grouping of items used to modify Truck, Utility, 1 1/4 Ton, M882 or M892 for the installation of Radio Set AN/VRC-49.

1-9. Description of Components

The Installation kit is made up of the components listed below. Attaching hardware is enclosed in a bag and fastened to the item it attaches.

a. *Mounting MT-1029/VRC* (fig. FO-1). Mounting MT-1029/VRC is a shock mounted base unit for Radio Set AN/VRC-49.

b. *Cables* (fig. FO-1). Cables are used to carry signals and power for radio sets (a) above. All cables have been manufactured in specific lengths.

c. *Control, Radio Set C-2299/VRC* (fig. FO-1). Control, Radio Set C-2299/VRC enables the two re-

ceiver-transmitters to perform automatic retransmission of signals at a relay radio site.

d. *Headset, Electrical H-251B/U* (item 33, FO-1).

e. *Microphone, Dynamic M-80C/U* (item 32, FO-1).

f. *Mounting Hardware* (fig. FO-1). Brackets, nuts, bolts, etc.

CHAPTER 2

SERVICE UPON RECEIPT AND INSTALLATION

Section I. GENERAL

2-1. Unpacking

a. Packaging Data. When packed for shipment the components of the installation kit and difference kit are packed in individual cartons. All cartons are usually packed in a large cardboard carton which may or may not be installed inside a wooden packing crate. When packed for overseas shipment the cardboard carton is enclosed in a moistureproof paper.

b. Removing Contents. Unpack the equipment from case as follows:

CAUTION

Do not pry open case with prybar or crowbar. Equipment within case may be damaged.

(1) Cut and fold back any metal straps around wooden packing case.

(2) Remove nails from cover and one side of wooden packing case.

(3) Remove cover and one side.

(4) Open moistureproof barrier cover in outer carton and remove carton from case.

(5) Open carton and moistureproof barrier covering inner carton.

(6) Remove inner carton and open.

(7) Remove contents from inner carton. Save cartons, inner blocking, fillers, etc, for future limited storage of the installation kit.

2-2. Checking Unpacked Equipment

a. Inspect the equipment for damage incurred during shipment. If any damage is found, report on DD Form 6 (para 1-3b).

b. See that the installation kit supplied is complete as listed on the packing slip. If a packing slip is not available, check the kit against the list of kit items in appendix E. Report all discrepancies in accordance with TM 38-750. Shortage of a minor assembly or spare part which does not affect usage should not prevent installation and use of the kit.

2-3. Preparation for Installation

To perform the installation of the MK-1813/VRC-49 a suitable site must be selected. The installation procedure calls for holes to be drilled in the vehicle, therefore, electric power should be available to operate an electric drill and provide lighting if necessary.

2-4. Tools and Equipment Required

The following tools and equipment are required for installation of the MK-1813/VRC-49.

a. Tool Kit, Electronic Equipment TK-100/G.

b. 9/32-inch drill bit with 1/4-inch shank, NSN 5133-00-889-1975.

c. 11/32-inch drill bit with 1/4-inch shank, NSN 5133-00-889-1905.

Section II. INSTALLATION PROCEDURES

2-5. General

a. Before installing the MK-1813/VRC follow the instructions below to aid in installation.

WARNING

Ensure that all safety precautions are observed while drilling near the gas tank and that all electrical equipment is grounded.

(1) Ensure that vehicle is close to power source for operation of electrical equipment.

(2) Move kit close to where equipment will be installed.

(3) Remove all burrs and sharp edges after drilling, and remove metal shavings and chips from vehicle.

b. Read and follow instructions and figures carefully.

NOTE

When vehicles with radio sets are turned in or transferred, the radio set and installation kit will be removed and reinstalled in the new vehicle using a difference kit.

2-6. Installation of Kit

Install the radio equipment as follows:

a. Identify all parts and components of the kit using figure FO-1.

b. Perform all drilling as described below:

(1) Drill an 11/32-inch hole for ground strap of each Antenna AS-1729/VRC as shown in figures FO-2 and 2-1.

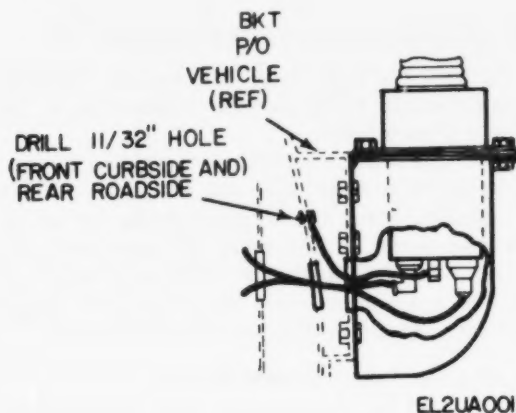


Figure 2-1. Grounding Antenna AS-1729/VRC to truck.

(2) Using item 2, figure FO-1 as a template, drill two 9/64-inch holes and fasten microphone hook (located at discretion of user) to equipment rack as shown in figure 2-2, using hardware supplied.

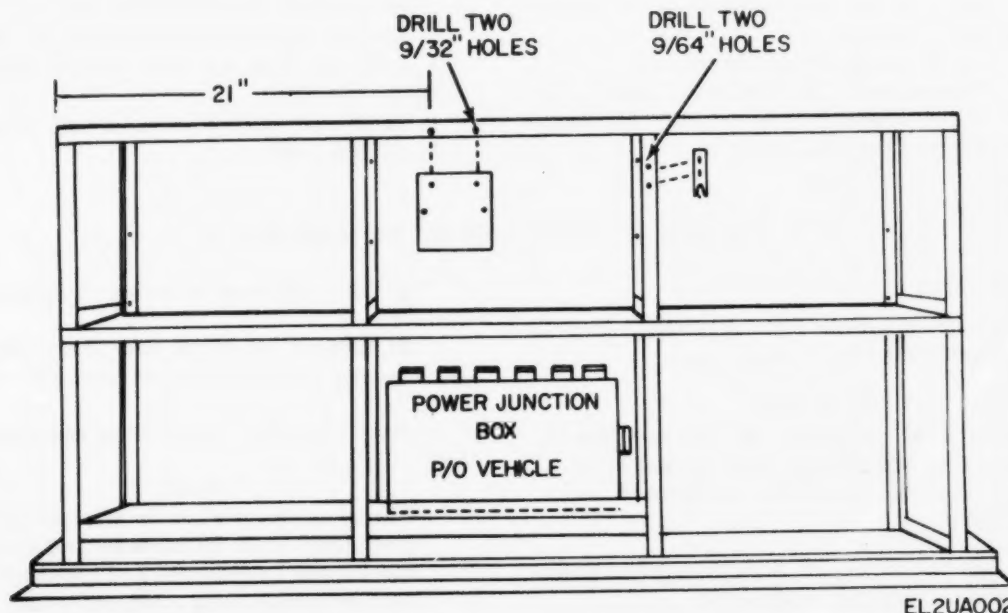


Figure 2-2. Mounting and accessory support kit and support assembly

(3) Using item number 31, figure FO-1 as a template, measure 21 inches from the left on the top shelf and mark holes for drilling (fig. 2-2). Drill two 9/32-inch holes. Fasten item number 1, figure FO-1 to item number 31, figure FO-1 using items 27, 28, 29, and 30. Fasten above items to the top shelf (fig. FO-1) using items 27, 28, 29, and 30.

c. Remove the five cap screws and washers used to secure top tray of Mounting MT-1029/VRC (21) of figure FO-1 to shock mounts and remove grounding straps and top of tray.

d. Position lower portion of Mounting MT-1029/VRC (21) figure FO-1 in the center shelf of the installation rack (fig. FO-1) and fasten in position, using items 18, 19, and 20.

e. Assemble connector adapter (3) and connector plug (4) to cable assembly (24). Connect Cable Assembly, Power CX-4720/VRC (24) figure 2-3 to J-21 of Mounting MT-1029/VRC and to junction box as shown in figure 2-3.

f. Connect Cable Assembly, Special Purpose CX-4721/VRC, (26) figure 2-3, to J-23 of MT-1029/VRC.

g. Connect Cable Assembly, CX-4723/VRC, (25) figure 2-3, to J-22 of MT-1029/VRC and to left side of Control C-2299/VRC (1).

h. Reinstall upper portion of tray MT-1029/VRC removed in c above to shock mounts and replace ground straps.

i. Remove the five cap screws and washers used to secure the top tray of the second Mounting MT-1029/VRC, (21) figure FO-1, to shock mounts and remove grounding straps.

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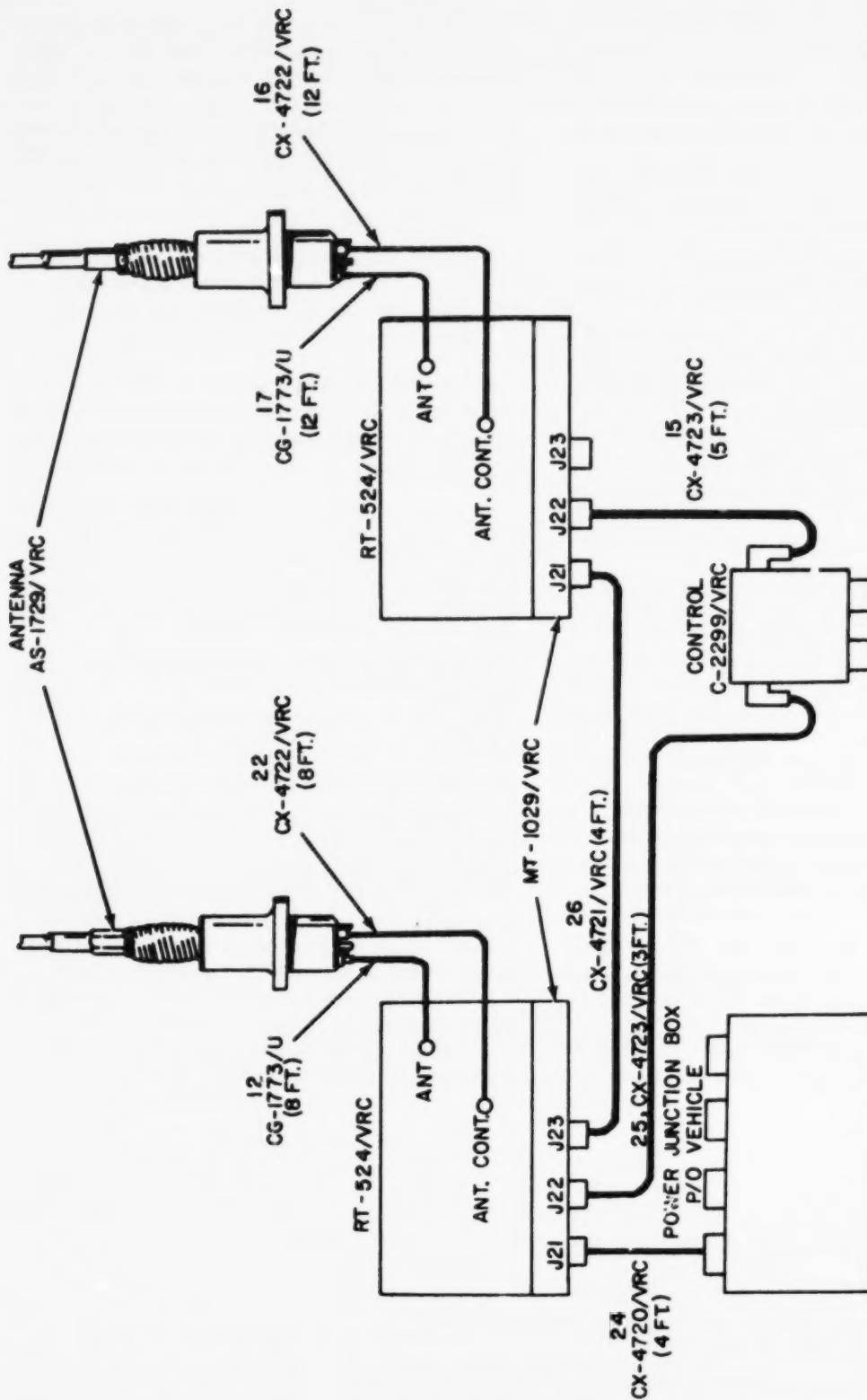


Figure 2-3. Cabling Diagram for MK-1815/VRC-49.

- j. Remove the top of the mounting tray.
- k. Position lower portion of Mounting MT-1029/VRC, (21) figure FO-1, on the lower shelf of the installation rack (fig. FO-1) and fasten in position, using items 18, 19, and 20.
- l. Connect the free end of Cable Assembly CX-4721/VRC, (26) figure 2-3, to J-21 of the lower Mounting MT-1029/VRC.
- m. Connect Cable Assembly CX-4723/VRC, (15) figure FO-1, to J-22 of MT-1029/VRC and to right side of item (1) figure FO-1.
- n. Reinstall upper portion of tray MT-1029/VRC removed in *l* above to shock mounts and replace ground straps.
- o. If the radio sets, (Receiver-Transmitter RT-524/VRC) are to be installed, ensure that the power switch is in the OFF position and install them on the MT-1029/VRC mounting.

2-7. Installation of Antennas

- a. Fasten support assembly (11) figure FO-1 to interface bracket (curbside front), using items 29 and 30. Install grommet material (13 and 14) as shown in figure FO-1, detail B.
- b. Fasten base of Antenna AS-1729/VRC to support assembly, (11) figure FO-1, using items 7, 8, 9, and 10 and attach antenna sections.
- c. Attach one end of the ground strap to the threaded boss on the matching unit, using hardware supplied. The remaining end is connected to the truck sidewall, figure 2-1.

NOTE

Do not connect antenna cable assemblies to antennas if radio set is not installed in vehicle. When cables are installed use item (6) figure FO-1 to secure cables to equipment rack.

- d. Connect Cable Assembly RF CG-1773B/U, (12) figure FO-1, and Cable Assembly, Special Purpose CX-4722/VRC, (22) figure FO-1 and 2-3, to correct receptacles on Antenna AS-1729/VRC.
- e. Route the CX-4722/VRC and CG-1773B/U along rack (fig. FO-1) and connect to Receiver-

Transmitter RT-524/VRC mounted on center shelf on installation rack.

- f. Repeat procedure (*a*, *b*, and *c*) above for Antenna AS-1729/VRC mounted at roadside rear using Cable Assembly, Special Purpose CX-4722/VRC (16) and Cable Assembly, Radio Frequency CG-1773/U (17). Refer to figure FO-1 and 2-3 for correct cabling between antenna and RT-524/VRC mounted on lower shelf.

NOTE

If Antenna AT-912/VRC is to be installed on truck M882 or M892, use existing hardware and install antenna and antenna guard as shown in figure FO-2.

- g. Remove the power cable from the dummy connector (curbside in cargo area) and connect it to the power junction box. Refer to technical manuals supplied with Radio Set AN/VRC-49 for operation of radio.

- h. After complete installation of the MK-1813/VRC, recheck tightness of all bolts, nuts, and screws. Touchup paint all bare spots where holes were drilled. (See paragraph 3-9.) Dress and secure all cables to equipment rack using item (6), figure FO-1.

- i. Items when not in operation will be stored in accordance with organizational procedures, or disposed of in accordance with DOD 4160.21-M-1 and AR 755-2.

2-8. Difference Kit MK-1813/VRC-49

- a. Items comprising Difference Kit MK-1813/VRC-49 (NSN 5820-01-022-6290) can be identified by using appendix B, section IIB, and figure FO-1.

- b. Items of the MK-1813/VRC-49 are packed separately. This kit contains the items required to transfer an existing vehicular installation of Radio Set AN/VRC-49 to truck 1 1/4 Ton M882 or M892.

- c. The Difference Kit will be stored in accordance with organizational procedures or TM 740-90-1.

- d. Follow instructions in steps 2-6 and 2-7 for installation of the Difference Kit.

CHAPTER 3 MAINTENANCE INSTRUCTIONS

Section I. OPERATOR'S MAINTENANCE

3-1. Scope of Operator's Maintenance

Operator's maintenance consists of cleaning and inspections. The person performing maintenance checks will observe the following instructions.

3-2. Material Required for Maintenance

(see appendix F)

- a. Cleaning cloth.
- b. Trichloroethane.
- c. Soft brush.

3-3. Preventive Maintenance

Preventive maintenance is the systematic care, inspection and servicing to assure that the equipment is serviceable and to reduce downtime.

a. *Systematic Care.* The procedures given in paragraph 3-4 are essential to the upkeep of the installation kit items. Cleaning operations (para 3-5) should be performed daily. When the equipment is not used daily, cleaning operations shall be performed before operation, after extended use, or once a week when equipment is kept in a standby condition.

b. *Preventive Maintenance Service and Inspection.* The preventive maintenance checks and services chart (table 3-1) outlines inspections to be made at specific intervals. These inspections are made to maintain the equipment in good general (physical) and operating condition. Records and reports of these inspections must be made in accordance with TM 38-750.

3-4. Maintenance Checks and Services Periods

Table 3-1 specifies checks and services that must be accomplished daily or under special circumstances listed below.

- a. When equipment is initially installed.
- b. When equipment is reinstalled after relocation.
- c. At least once a week if the equipment is maintained in a standby condition.

3-5. Cleaning

Inspect all components of the installation kit. All exterior surfaces must be free of dust, dirt, grease and fungus.

- a. Remove dust and dirt with a clean soft cloth.

WARNING

The fumes of TRICHLOROETHANE are toxic. Provide thorough ventilation whenever it is used; avoid prolonged or repeated breathing of vapor. Do not use near an open flame or hot surface; trichloroethane is nonflammable but heat converts the fumes to a highly toxic phosgene gas the inhalation of which could result in serious injury or DEATH. Prolonged or repeated skin contact with trichloroethane can cause skin inflammation. When necessary, use gloves, sleeves and aprons which the solvent cannot penetrate.

Table 3-1. Daily Preventive Maintenance Checks and Services Chart

NOTE:

The checks in the "Interval" column are to be performed in the order listed.

B—Before
operation

A—After
operation

W—Weekly

Item No.	Interval			Item to be inspected	Procedures Check and have repaired or adjusted as necessary	For readiness reporting. equipment is not ready/available if:
	B	A	W			
1	X	X	X	Exterior surfaces	Clean exterior surfaces of the components that make up the system. WARNING Do not clean equipment while power is on.	
2	X	X	X	Intercabling and connectors	Check all interconnecting cables and connectors for cracks and breaks. Tighten all connectors.	
3	X	X	X	Equipment mounting	Check to ensure that all components are securely mounted and that they are firmly bolted in place.	

b. Remove grease, ground-in dirt and fungus from the equipment using a dampened (not wet) cloth with trichloroethane.

c. Clean cables with a soft cloth. If necessary use a dampened cloth with a mild soap to remove dirt from cables.

Section II. ORGANIZATIONAL MAINTENANCE

3-6. Scope of Organizational Maintenance

This section contains instructions covering organizational maintenance of the kit. Organizational maintenance includes:

- Quarterly preventive maintenance.
- Touchup painting.
- Cable troubleshooting and repair.

3-7. Tools and Materials Required

(see appendix F)

- Tool Kit, Electronic Equipment TK-101/G.
- Multimeter AN/URM-105.
- Cleaning cloth.
- Trichloroethane.

3-8. Quarterly Preventive Maintenance

Quarterly maintenance will be scheduled in accordance with the requirements of TM 38-750. All deficiencies will be noted and recorded, and those not corrected during inspection and service will be reported immediately to a higher maintenance category by use of forms and procedures specified in TM 38-750. Daily services constitute a part of the quarterly maintenance checks and must be performed concurrently. Perform all checks and services as specified in table 3-2.

3-9. Touchup Painting

When the finish on any metal parts of the equipment has been scarred, damaged, or corroded, lightly sand it with fine sandpaper and clean the surface down to bare metal. Apply a light coat of paint,

forest green per MIL-E-52796A to all exposed metal surfaces. Refer to the applicable cleaning and refinishing practices specified in TB 43-0118.

3-10. Cable Maintenance

WARNING

When making continuity checks for defective cables ensure that power is removed from the equipment by disconnecting power cable from the side of the power junction box.

a. Cable maintenance is divided into two steps: Troubleshooting and repair. Troubleshooting locates the cable defect to be repaired. The repair step corrects the defect. Possible defects to look out for are open cable conductors, cable conductors that are shorted together, broken or misaligned connector pins, and broken or cracked connector shells. Except for the shorted or open conductors, other defects are found by close visual inspection of the cable assembly. The shorted or open conductors must be located by use of Multimeter AN/URM-105.

b. Techniques to locate shorted or open cable conductors vary according to the length and accessibility of the cable. The installation kit cables are short and readily accessible; therefore, they should be checked from connector to connector. If the meter indicates 0 or low (less than 1 or 2 ohms) the wire has continuity. Shorted wires are located by placing the ohmmeter leads on pins or socket that are shown on the cable schematic diagram to have no connec-

Table 3-2. Quarterly Preventive Maintenance Checks and Services Chart

NOTE:

The checks in the "Interval" column are to be performed in the order listed.

Q-QUARTERLY

Item No.	Interval	Item to be inspected	Procedures Check and have repaired or adjusted as necessary	For readiness reporting, equipment is not ready/available if:
	Q			
1	X	Installation	Check to see that the equipment is properly installed.	
2	X	Preservation	Check all equipment surfaces for evidence of fungus, rust, corrosion. Clean fungus areas, remove rust and corrosion, and spot paint bare spots.	
3	X	Publications	Check to see that all publications are complete, serviceable, and current.	
4	X	Modification	Check to determine whether new applicable MWO's have been published. ALL URGENT MWO's must be applied immediately. ALL MWO's must be scheduled.	

tion. For Cable Assembly CX-4720/VRC, disconnect the cable from the junction box and disconnect the wires from the terminal lugs. (See detail D, FO-1.) Measure continuity of each wire. If a wire is found defective replace the entire cable.

c. When an open or short is located in a cable, flex

segments of the cable along its length while the ohmmeter is in the circuit. When the ohmmeter shows intermittent short or open in unison with the cable segment being flexed, the area of the cable fault has been located. Replace faulty cable.

APPENDIX A

REFERENCES

-
- | | |
|-------------------|--|
| AR 700-58 | Packaging Improvement Report. |
| AR 755-2 | Disposal of Excess, Surplus, Foreign Excess, Captured, and Unwanted Materiel. |
| DA PAM 310-4 | Index of Technical Manual, Technical Bulletins, Supply Manuals (Types 7, 8 and 9) Supply Bulletins and Lubrication Orders. |
| DA PAM 310-7 | US Army Equipment Index of Modification Work Orders. |
| DOD 4160.21-M-1 | Defense Demilitarization Manual (Restructured). |
| SB 11-131 | Vehicular Radio Sets and Authorized Installations. |
| SB 11-628 | Headset, Electrical H-251/U, FSN 5965-043-3460 for Use with Radar Set AN/PPS-5. |
| SB 38-100 | Preservation, Packaging, Packing and Marking Materials, Supplies and Equipment Used by the Army. |
| TB SIG 291 | Safety Measures to be Observed When Installing and Using Whip Antennas, Field-Type Masts, Towers and Antennas and Metal Poles that are Used with Communication, Radar and Direction Finder Equipment. |
| TB 43-0118 | Field Instructions for Painting and Preserving Electronics Command Equipment, Including Camouflage Pattern Painting of Electrical Equipment Shelters. |
| TM 11-5820-401-12 | Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools Lists): Radio Sets AN/VRC-12 (NSN 5820-00-223-7412), AN/VRC-43 (5820-00-223-7415), AN/VRC-44 (5820-00-223-7417), AN/VRC-45 (5820-00-223-7418), AN/VRC-46 (5820-00-223-7433), AN/VRC-47 (5820-00-223-7434), AN/VRC-48 (5820-00-223-7435), AN/VRC-49 (5820-00-223-7437), AN/VRC-54 (5820-00-223-7567), and AN/VRC-55 (5820-00-402-2265); Mounting MT-1029/VRC (5820-00-893-1323) and MT-1898/VRC (5820-00-893-1324); Antenna AT-912/VRC (5820-00-897-6357); Control, Frequency Selector C-2742/VRC (5820-00-892-3343) and Control, Radio Set C-2299/VRC (5820-00-892-3340). |
| TM 11-5965-268-50 | Depot Maintenance Manual: Microphones T-30, T-45, T-50, M-29/U and M-80(*)/GR |
| TM 11-6625-203-12 | Operator and Organizational Maintenance: Multimeter AN/URM-105 and AN/URM-105C, Including Multimeter ME-77/U and ME-77C/U. |
| TM 38-750 | The Army Maintenance Management System (TAMMS). |
| TM 750-244-2 | Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command). |

APPENDIX B

COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists integral components of and basic issue items for the MK-1813/VRC-49 to help you inventory items required for safe and efficient operation.

B-2. Section II. Integral Components of the End Item

These items, when assembled, comprise the MK-1813/VRC-49 and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

B-3. Section III. Basic Issue Items

Not applicable.

B-4. Explanation of Columns

a. *Illustration*. This column is divided as follows:

(1) *Figure Number*. Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number*. The number used to identify the item called out in the illustration.

b. *National Stock Number (NSN)*. Indicates the

NSN assigned to the item and which will be used for requisitioning.

c. *Part Number*. Indicates the primary number used by the manufacturer, which controls the design and characteristics of the item by means of its engineering, drawings, specifications, standards, and inspection requirements to identify an end item or range of items.

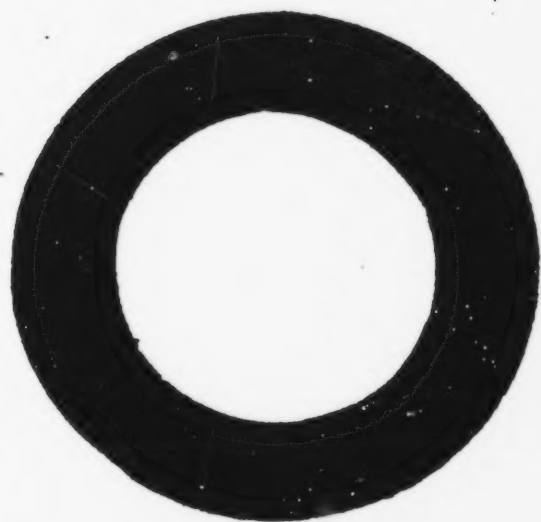
d. *Description*. Indicates the Federal Item Name and if required, a minimum description to identify the end item.

e. *Location*. The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent item.

f. *Usable on Code*. Not applicable.

g. *Quantity Required (Qty Req'd)*. This column lists the quantity of each item required for a complete major item.

h. *Quantity*. This column is left blank for use during an inventory. Under the Rev'd column, list the quantity you actually receive on your major item. The Date columns are for use when you inventory the major item at a later date, such as shipment to another site.



SECTION IIA. INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NUMBER FSCM	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(A) FIG NO.	(B) ITEM NO.							RCVD	DATE	DATE	DATE
PG-1	1	5820-00-892-3340		Control, Radio Set C-2299/VRC			1				
PG-1	2	5820-00-856-9165	PPL-1843 (80063)	Audio Accessory Support Kit			1				
PG-1	5	5820-00-930-7223	SCL446180 (80063)	Antenna Tip Assembly (for AT-1095/VRC)			2				
PG-1	6	5820-00-752-5738	PPL-914 (80063)	Clamp Strap Kit			1				
PG-1	11	5820-00-740-1780	SCD189023 (80063)	Support Assembly			2				
PG-1	12	5995-00-823-2990	SMD415563 (80063)	Cable Assembly, Radio Frequency CG-1773/U (8 ft)			1				
PG-1	13	5325-00-783-4754	MS212667N (96906)	Grommet, Plastic Edging (Wide)			A/R				
PG-1	14	5325-00-027-0322	MS212663N (96906)	Grommet, Plastic Edging (Narrow)			A/R				
PG-1	15	5995-00-823-2833	SMD415553 (80063)	Cable Assembly, Special Purpose CX-4723/VRC (5 ft)			1				
PG-1	16	5995-00-823-2838	SMD415552 (80063)	Cable Assembly, Special Purpose CX-4722/VRC (12 ft)			1				
PG-1	17	5995-00-823-2992	SMD415563 (80063)	Cable Assembly, Radio Frequency CG-1773/U (12 ft)			1				
PG-1	21	5820-00-893-1323	MIL-M-55167 (80063)	Mounting, MF-1029/VRC			2				
PG-1	22	5995-00-823-2818	SMD415552 (80063)	Cable Assembly, Special Purpose CX-4722/VRC (8 ft)			1				
PG-1	24	5995-00-889-0708	SMD415550 (80063)	Cable Assembly, Power CX-4720/VRC (4 ft)			1				
PG-1	25	5995-00-823-2824	SMD415553 (80063)	Cable Assembly, Special Purpose CX-4723/VRC (3 ft)			1				
PG-1	26	5995-00-823-2770	SMD415551 (80063)	Cable Assembly, Power CX-4721/VRC (4 ft)			1				
PG-1	31	5820-01-022-9241	SCC866119 (80063)	Mounting Assembly			1				
PG-1	32	5965-00-179-7762		Microphone, Dynamic M90C/U			1				
PG-1	33	5965-00-043-3460		Headset, Electrical H251B/U			1				

SECTION IIB. INTEGRAL COMPONENTS OF DIFFERENCE KIT

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NUMBER FSCM	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(A) FIG NO.	(B) ITEM NO.							RCVD	DATE	DATE	DATE
FO-1	11	5820-00-740-1780	SCD189023 (80063)	Support Assembly			2				
FO-1	12	5995-00-823-2990	SMD415563 (80063)	Cable Assembly, Radio Frequency CG-1773/U (8 ft)			1				
FO-1	13	5325-00-783-4754	MS212667N (96906)	Grommet, Plastic Edging (Wide)			1				
FO-1	14	5325-00-029-0322	MS21263N (96906)	Grommet, Plastic Edging (Nar- row)			1				
FO-1	16	5995-00-823-2838	SMD415552 (96906)	Cable Assembly, Special Purpose CX-4722/VRC (12 ft)			1				
FO-1	17	5995-00-823-2992	SMD415563 (80063)	Cable Assembly, Radio Frequency CG-1773/U (12 ft)			1				
FO-1	22	5995-00-823-2818	SMD415552 (80063)	Cable Assembly, Special Purpose CX-4722/VRC (8 ft)			1				
FO-1	31	5820-01-022-9241	SCC866119 (80063)	Mounting Assembly			1				

APPENDIX C ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists additional items you are authorized for the support of the MK-1813/VRC.

C-2. General

This list identifies items that do not have to accompany the MK-1813/VRC and that do not have to be

turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

C-3. Explanation of Listing

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment.

SECTION II ADDITIONAL AUTHORIZATION LIST

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION		(3) UNIT OF MEAS	(4) QTY AUTH
	PART NUMBER AND FSCM	USABLE ON CODE		
5133-00-889-1905	Drill Bit, 11/32" with 1/4" Shank, GGG D751, 81348		EA	1
5133-00-889-1975	Drill Bit, 9/32" with 1/4" Shank, GGG D751, 81348		EA	1

APPENDIX D MAINTENANCE ALLOCATION

Section I. INTRODUCTION

D-1. General

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. The Maintenance Allocation Chart (MAC) in Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III list the special tools and test equipment required for each maintenance function as referenced in section II.

d. Section IV contains supplemental instructions on explanatory notes for a particular maintenance function.

D-2. Maintenance Functions

a. *Inspect.* To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. *Test.* To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. *Service.* Operations required periodically to keep an item in proper operating condition; i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. *Adjust.* To maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. *Align.* To adjust specified variable elements of an item to bring about optimum or desired performance.

f. *Calibrate.* To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. *Install.* The act of implacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of the equipment/system.

h. *Replace.* The act of substituting a serviceable like-type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. *Repair.* The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. *Overhaul.* That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. *Rebuild.* Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

D-3. Column Entries Used in the MAC

a. *Column 1, Group Number.* Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. *Column 2, Component/Assembly.* Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column 3, Maintenance Functions.* Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para D-2.)

d. *Column 4, Maintenance Level.* Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of manhours specified by the

"work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

- C—Operator or crew.
- O—Organizational maintenance.
- F—Direct support maintenance.
- H—General support maintenance.
- D—Depot maintenance.

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

f. Column 6, Remarks. Column 6 contains letter codes in alphabetic order which are keyed to the remarks contained in section IV.

D-4. Column Entries Used in Tool and Test Equipment Requirements

- a. Column 1, Tool or Test Equipment Reference Code.* The tool and test equipment reference code correlates with a maintenance function on the identified end item or component.
- b. Column 2, Maintenance Level.* The lowest level of maintenance authorized to use the tool or test equipment.
- c. Column 3, Nomenclature.* Name or identification of the tool or test equipment.
- d. Column 4, National/NATO Stock Number.* The National or NATO stock number of the tool or test equipment.
- e. Column 5, Tool Number.* The manufacturer's part number.

D-5. Explanation of Columns in Section IV

- a. Reference Code.* The code scheme recorded in column 1, section III.
- b. Remarks.* This column lists information pertinent to the maintenance function being performed as indicated on the MAC, section II.

SECTION II MAINTENANCE ALLOCATION CHART
FOR
INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-1813/VNC-49

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
00	INSTALLATION KIT ELECTRONIC EQUIPMENT MK-1813/VNC	Install Inspect Service Repair Replace	.25 .20		2.0			2,3	
01	Mounting MT-1029/VNC			1.0				1,2	A
02	Control, Radio Set C-2299/VNC			1.0				1,2	B
03	Installation Kit Electronic Equipment (Difference MK-1813/VNC)	Install Inspect Service Repair Replace							B

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR

INSTALLATION KIT, ELECTRONIC EQUIPMENT HE-1813/VRC-49

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	O	TOOL KIT TK-101/G, 80058	5180-00-064-5178	
2	O, F	MULTIMETER AM/UM6-105, 80058	5625-00-581-2036	
3	F	TOOL KIT TK-100/G, 80058	5180-00-605-0079	

SECTION IV. REMARKS

REFERENCE CODE	INSTRUCTIONS
A	Repair by component replacement
B	Refer to TM-11-5820-401-12

APPENDIX E

ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

Section I. INTRODUCTION

E-1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational and direct support maintenance of Installation Kit, Electronic Equipment MK-1813/VRC and Difference Kit (NSN 5820-01-022-6290). It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

E-2. General

These Repair Parts and Special Tools Lists are divided into the following sections:

a. *Section II. Repair Parts List.* A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. *Section III. Special Tools List.* Not applicable.

c. *Section IV. National Stock Number and Part Number Index.* A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

E-3. Explanation of Columns

a. *Illustration.* This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number.* The number used to identify item called out in the illustration.

b. *Source, Maintenance, and Recoverability (SMR) Codes.*

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code

Definition

PA—Item procured and stocked for anticipated or known usage.

PB—Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.

PD—Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.

XD—A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source-coded above, except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance Code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code

Application/Explanation

O—Support item is removed, replaced, used at the organizational level.

F—Support item is removed, replaced, used at the direct support level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code

Application/Explanation

D—The lowest maintenance level capable of complete repair of the support item is the Depot level.

Z—Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability

Codes

Definition

Z—Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

D—Reparable item. When beyond lower level repair capability return to Depot. Condemnation and disposal not authorized below Depot level.

c. *National Stock Number.* Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. *Part Number.* Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock-numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. *Federal Supply Code for Manufacturer (FSCM).* The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. *Description.* Indicates the Federal item name and, if required, a minimum description to identify the item.

g. *Unit of Measure (U/M).* Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. *Quantity Incorporated in Unit.* Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

E-4. Special Information

a. Usable on codes are shown in the description

column. Uncoded items are applicable to all models. Identification of the usable codes used in this publication are:

Code

DGP

Used on

Installation Kit, Electronic Equipment MK-1813/VRC.

b. *National Stock Numbers (NSN's)* that are missing from P Source Coded items have been applied for and will be added to this TM by future Change/Revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Electronics Command, ATTN: DRSEL-MM, Fort Monmouth, NJ 07703 for the part required to support your equipment.

E-5. How to Locate Repair Parts

a. When National stock number or part number is unknown:

(1) *First.* Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same group.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

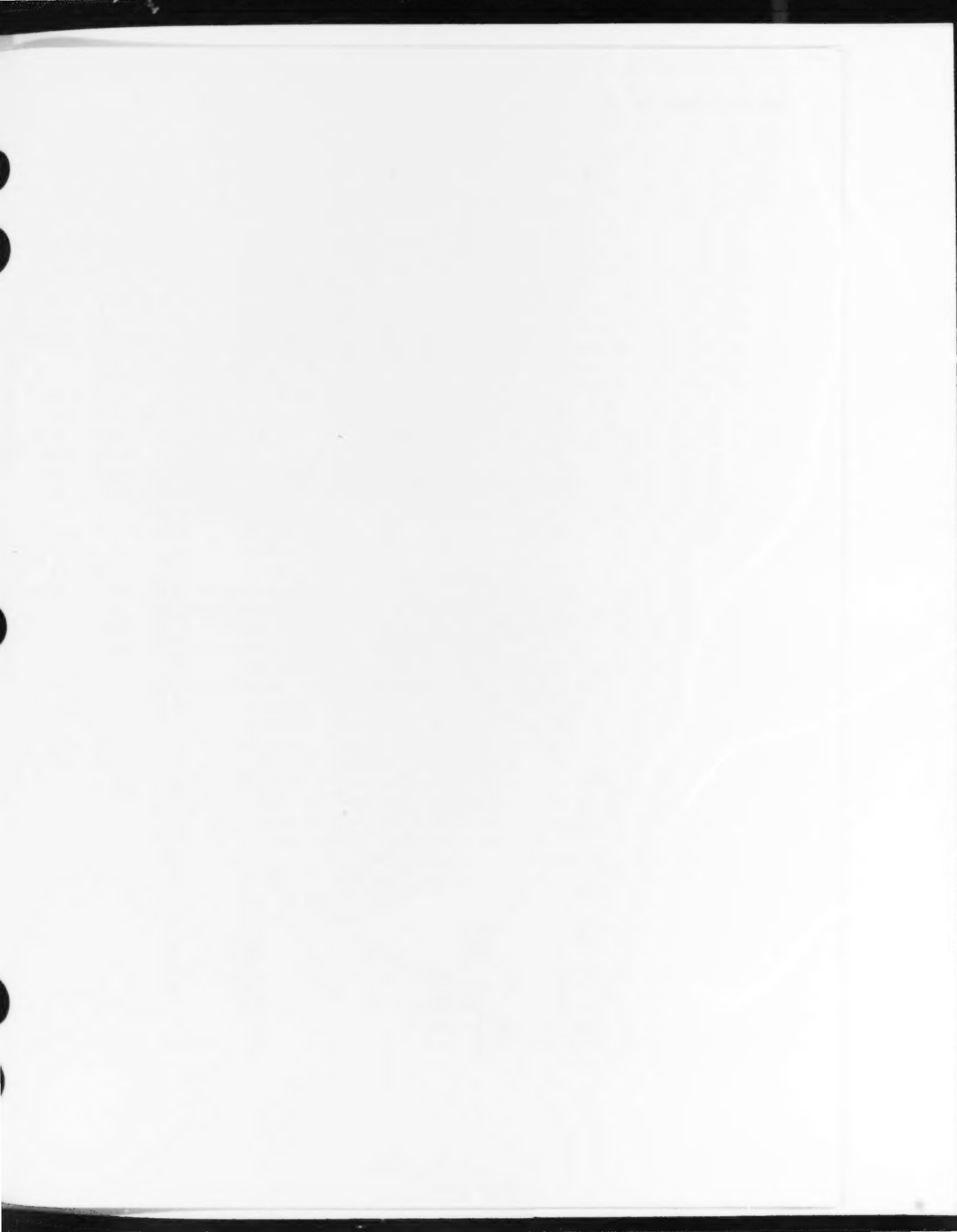
b. When National stock number or part number is known.

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence, followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

E-6. Abbreviations

Not applicable.



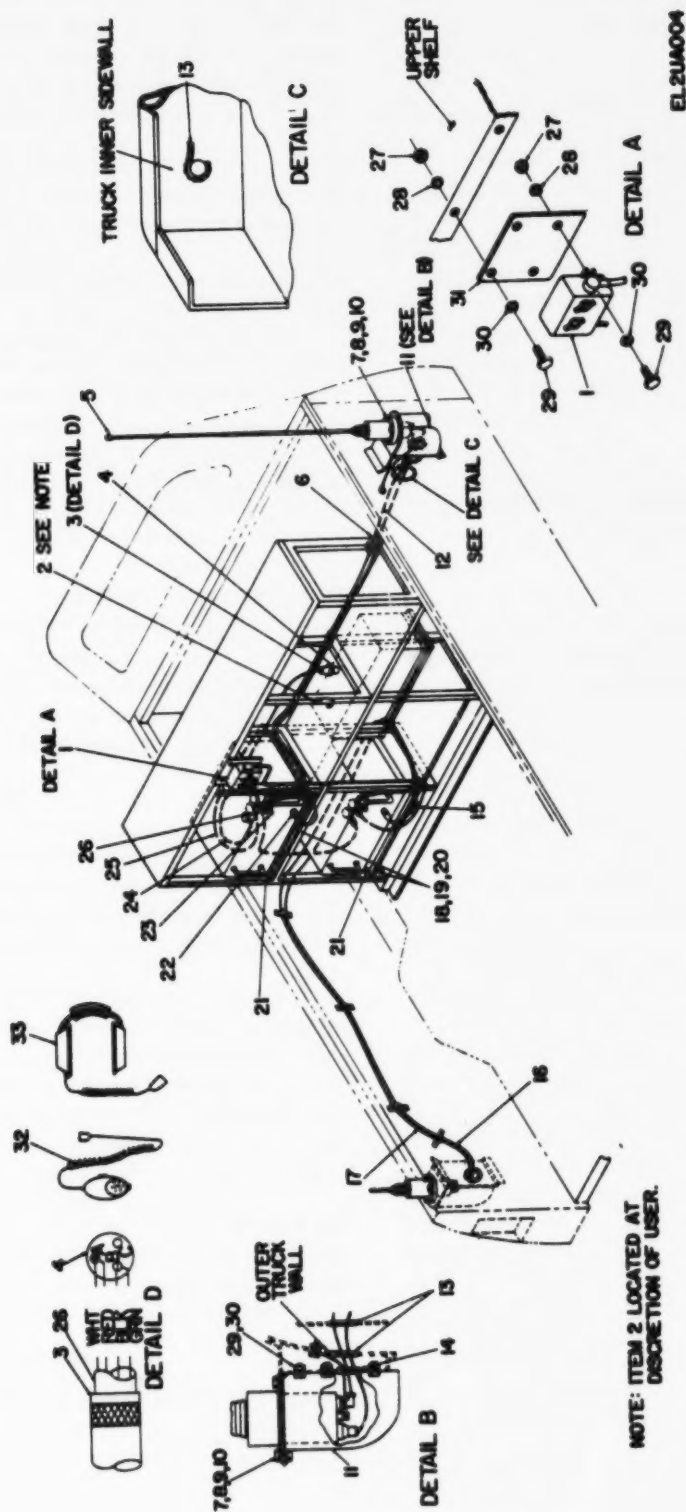


Figure E-1. Installation Kit, Electronic Equipment MK-1813/VRC and Installation Kit Electronic Equipment (Difference MK-1813/VRC).

SECTION II

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	PSCN	DESCRIPTION	QTY INC IN UNIT	
UNABLE ON CODE								
GROUP 00 INSTALLATION KIT ELECTRONIC								
EQUIPMENT MK-1813/VRC								
E-1	1	PD000	5820-00-892-3340	C2299VRC	80058	CONTROL RADIO SET.....DGP	EA	1
E-1	2	PB0ZZ	5820-00-856-9165	PP-L-1843	80063	AUDIO ACC SPT KIT.....DGP	EA	1
E-1	3	PA0ZZ	5935-00-892-8931	DL-S-CA339542	80063	CONNECTOR ADAPTER.....EA	1	
E-1	4	PA0ZZ	5935-00-856-8426	SM-C-632655	80063	CONNECTOR, PLUG ELEC.....EA	1	
E-1	5	PA0ZZ	5820-00-437-2353	SCC446180	80063	ANTENNA TIP ASSY.....DGP	EA	2
E-1	6	PB0ZZ	5820-00-752-5738	PPL914	80063	CLAMP STRAP KIT.....DGP	EA	2
E-1	7	XDFZZ	5305-00-269-3216	HS90725-66	96906	SCREW, HEX HEAD.....DGP	EA	8
E-1	8	XDFZZ	5310-00-543-2628	HS35690-602	96906	NUT, HEX.....DGP	EA	8
E-1	9	XDFZZ	5310-00-543-5101	HS35338-27	96906	WASHER, LOCK, SPLIT.....DGP	EA	8
E-1	10	XDFZZ	5310-00-061-1258	HS45904-76	96906	WASHER, LOCK.....DGP	EA	4
E-1	11	PB0ZZ	5820-00-740-1780	SC-D-189023	80063	SUPPORT ASSEMBLY.....EA	2	
E-1	12	PAFZZ		CG17738/U8FT	80058	CABLE ASSEMBLY.....EA	1	
E-1	13	PA0ZZ	5325-00-238-6037	HS21266-7H	96906	GROMMET PLSTC EDGE.....EA	1	
E-1	14	PA0ZZ	5325-00-926-1394	HS21266-3N	96906	GROMMET PLSTC EDGE.....EA	1	
E-1	15	PAFZZ		CA4723/VRC5FT	80058	CABLE ASSEMBLY.....DGP	EA	1
E-1	16	PAFZZ		CA4722/VRC	80058	CABLE ASSEMBLY 12FT.....EA	1	
E-1	17	PAFZZ		CG17738/U	80058	CABLE ASSY RF 12FT.....EA	1	
E-1	18	XDFZZ	5306-00-225-9087	HS90726-32	96906	SCREW, HEX HEAD.....EA	14	
E-1	19	XDFZZ	5310-00-514-6674	HS35335-34	96906	WASHER, LOCK ET.....EA	20	
E-1	20	XDFZZ		HS35690-552	96906	NUT, HEX.....EA	14	
E-1	21	PD000	5820-00-893-1323	HT1029VRC	80058	MOUNTING.....DGP	EA	2
E-1	22	PAFZZ		CA4722/VRC8FT	80058	CABLE ASSEMBLY.....EA	1	
E-1	23	PA0ZZ	5935-00-847-2600	UG306BU	80058	ADAPTER, CONNECTOR.....DGP	EA	2
E-1	24	PAFZZ		CA4720/VRC6FT	80058	CABLE ASSEMBLY PWR.....DGP	EA	1
E-1	25	PAFZZ		CA4723/VRC3FT	80058	CABLE ASSEMBLY.....DGP	EA	1
E-1	26	PAFZZ		CA4721/VRC4FT	80058	CABLE ASSEMBLY.....DGP	EA	1
E-1	27	XDFZZ		HS35690-602	96906	NUT, HEX.....DGP	EA	2
E-1	28	XDFZZ	5310-00-889-2527	HS45904-72	96906	WASHER, LOCK IET.....DGP	EA	8
E-1	29	XDFZZ	5305-00-068-0502	HS90725-6	96906	SCREW, HEX HEAD.....DGP	EA	14
E-1	30	XDFZZ	5310-00-889-2528	HS45904-68	96906	WASHER, LOCK IET.....DGP	EA	16
E-1	31	PB0ZZ	5820-01-022-9241	SC-C-866119	80063	MOUNTING ASSY.....EA	1	
E-1	32	PA0ZZ		M80C/1	80058	MICROPHONE, DYNAMIC.....DGP	EA	1
E-1	33	PA0ZZ		H2518/U	80058	HEADSET, ELECTRICAL.....DGP	EA	1

SECTION VI

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-061-1258	E-1	10	5935-00-847-2600	E-1	23
5305-00-068-0502	E-1	29	5935-00-856-8426	E-1	4
5306-00-225-9087	E-1	18	5820-00-856-9165	E-1	2
5325-00-238-6037	E-1	13	5310-00-889-2527	E-1	28
5305-00-269-3216	E-1	7	5310-00-889-2528	E-1	30
5820-00-437-2353	E-1	5	5820-00-892-3340	E-1	1
5310-00-514-6674	E-1	19	5935-00-892-8931	E-1	3
5310-00-543-2628	E-1	8	5820-00-893-1323	E-1	21
5310-00-543-3101	E-1	9	5325-00-926-1394	E-1	14
5820-00-740-1780	E-1	11	5820-01-022-9241	E-1	31
5820-00-752-5738	E-1	6			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
CG1773B/U	80058	E-1	17	MS35690-602	96906	E-1	8
CG1773B/U8FT	80058	E-1	12	MS45904-68	96906	E-1	30
CX4720/VRC4FT	80058	E-1	24	MS45904-72	96906	E-1	28
CX4721/VRC4FT	80058	E-1	26	MS45904-76	96906	E-1	10
CX4722/VRC	80058	E-1	16	MS90725-6	96906	E-1	29
CX4722/VRC8FT	80058	E-1	22	MS90725-66	96906	E-1	7
CX4723/VRC3FT	80058	E-1	25	MS90726-32	96906	E-1	18
CX4723/VRC5FT	80058	E-1	15	MT1029VRC	80058	E-1	21
C2299VRC	80058	E-1	1	M80C/1	80058	E-1	32
DL-S-CA339542	80063	E-1	3	PP-L-1843	80063	E-1	2
M2518/U	80058	E-1	33	PPL914	80063	E-1	6
MS21266-3N	96906	E-1	14	SC-C-866119	80063	E-1	31
MS21266-7N	96906	E-1	13	SC-D-189023	80063	E-1	11
MS35335-34	96906	E-1	19	SCC446180	80063	E-1	5
MS35338-27	96906	E-1	9	SM-C-632655	80063	E-1	4
MS35690-402	96906	E-1	27	UG3068U	80058	E-1	23
MS35690-552	96906	E-1	20				

APPENDIX F

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

F-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the MK-1813/VRC. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

F-2. Explanation of Columns

a. *Column 1—Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, app F").

b. *Column 2—Level.* This column identifies the lowest level of maintenance that requires the listed item.

C—Operator/Crew

O—Organizational Maintenance

F—Direct Support Maintenance

H—General Support Maintenance

c. *Column 3—National Stock Number.* This is the National Stock Number assigned to the item; use it to request or requisition the item.

d. *Column 4—Description.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parenthesis, if applicable.

e. *Column 5—Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) UNIT OF MEAS
			PART NO. AND FSCM	
1	0	9340-00-906-3666	Brush, Soft Bristled, 193390, 01099	
2	0	8305-00-205-3496	Cloth, Cotton Cheesecloth, CCCC 440, 81348	
3	0	6810-00-664-0273	Fluid, Cleaning (Trichloroethane) 07620, 18845	

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS

SOMETHING WRONG WITH THIS MANUAL?



THEN... JOT DOWN THE
DOPE ABOUT IT ON THIS
FORM, TEAR IT OUT, FOLD
IT AND DROP IT IN THE
MAIL!

FROM: (YOUR UNIT'S COMPLETE ADDRESS)

Commander
Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703

DATE 4 April 1978

PUBLICATION NUMBER

TM 11-5840-340-14&P

DATE

23 Jan 74

TITLE

Radar Set W/PLC-76

BE EXACT... PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT:

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
E-5			
E-8		E-3	
E-9			

Recommend that the installation antenna alignment procedure be changed through to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 6 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

For item 2, change the NSN to read: 5835-00-134-9186.

REASON: Accuracy.

Identify the cover on the junction box (item no. 5).

REASON: It is a separate item and is not called out on figure 19.

Add the cover of the junction box as an item in the listing for figure 19.

REASON: Same as above.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

SIGN HERE:

SSA I. M. DeSpirito

DA FORM 2028-2
1 AUG 74

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AND WHAT SHOULD BE DONE ABOUT IT:

PAGE
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PARA-
GRAPH

FIGURE
NO.

TABLE
NO.

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